Web Results **1** - **10** of about **88** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.65**

Nisivoccia Consulting LLC
A user-friendly method that allows client computers to **access server** ... Relative URLs may only specify directory **path information** along with a file name. ...
www.nisivocciaconsulting.com/tech_glossary.htm - 366k - Cached - Similar pages

iirg acronyms v12 txt
... In The Sky PIU **Path Information** Unit PIU Plug-In Unit PIWG Performance Issues ... SVC Supervisor Call SVC Switched **Virtual Circuit** SVC Switched Virtual ...
www.mirrors.wiretapped.net/security/info/textfiles/iirg/iirg-acronyms-v12.txt - 535k - Cached - Similar pages

[PDF] INSTITUT NATIONAL POLYTECHNIQUE DE GRENOBLE Zainab Khallouf Titre ...
File Format: PDF/Adobe Acrobat - View as HTML
Access Server (NAS/BAS), the Digital **Subscriber** Line Multiplexers (DSLAMs), ... (Switched **Virtual Circuit**). A PVC is established statically by the network ...
www.inrialpes.fr/planete/people/khallouf/zainab_report_28mars06.pdf - Similar pages

[PDF] ERX Command Reference Guide N to Z
File Format: PDF/Adobe Acrobat
Displays permanent **virtual circuit** statistics for Frame Relay or MLFR. interfaces. ... Displays **path information** for the specified BGP neighbor. Syntax: ...
www.juniper.net/techpubs/software/erx/erx50x/swcmdref-n-z/download/s-commands.pdf - Similar pages

[PDF] JUNOSe Command Reference Guide N to Z
File Format: PDF/Adobe Acrobat
Displays IPv6 BGP **path information** for the specified BGP neighbor. ... Displays permanent **virtual circuit** statistics for Frame Relay or MLFR interfaces. ...
www.juniper.net/techpubs/software/erx/junose52/swcmdref-n-z/download/s-commands.pdf - Similar pages
[More results from www.juniper.net]

Cisco Management Information Base (MIB) User Quick Reference ...
When the row represents a permanent **virtual circuit** (PVC), then these two ... section are used to manage modems in the Cisco AS5200 universal **access server**. ...
www.cisco.com/en/US/products/sw/iosswrel/ps1824/products_mib_quick_reference_chapter09186a0080080e6b.html - 720k - Cached - Similar pages

CCDP: Cisco Internetwork Design Study Guide:Glossary
After CHAP is performed, the router or **access server** determines whether a given user is ... **Compare** with: control distribute VCC and control direct VCC. ...
www.unix.org.ua/cisco/CCNP-CCDP/CID-Sybex/glossary.html - 138k - Supplemental Result - Cached - Similar pages

[PDF] 640-861 (DESGN) Version 15.0

File Format: PDF/Adobe Acrobat - View as HTML
C. Order and install a remove **access server** in the prototype lab. ... Which type of WAN **virtual circuit** is created on demand and terminated when ...
books.rackhub.com/download/VGVzdEtpbmcgNjQwLTg2MSBFZHQxNS5wZGY= -

Similar pages

[PDF] Internetworking Technology Overview
File Format: PDF/Adobe Acrobat - View as HTML
Digital **Subscriber** Line (DSL) ... Transport-layer functions typically include flow control, multiplexing, **virtual circuit**. management, and error checking ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental Result - Similar pages

Multiplex communications patents 200605
A broadband **access server** for holding user channels by PPP and ... Atm permanent **virtual circuit** and layer 3 auto-configuration for digital **subscriber** line ...
www.freshpatents.com/Multiplex-communications-dt200605ntc370.php - 301k - Cached - Similar pages

Result Page: 1 2 3 4 5 6 **Next**

Web Results 11 - 20 of about 116 for compare subscriber "access server" "virtual circuit" "path information". (0.2

[PDF] JUNOSe 7.3.x Command Reference Guide N to Z
File Format: PDF/Adobe Acrobat
vcd—**Virtual circuit** descriptor that is an identifier for the VC in other ... **subscriber** disconnect command and the RADIUS dynamic-request server. feature. ...
www.juniper.net/techpubs/software/erx/junose73/bookpdfs/swcmdref-n-z.pdf - Similar pages

Cisco Management Information Base (MIB) User Quick Reference ...
When the row represents a permanent **virtual circuit** (PVC), then these two ... section are used to manage modems in the Cisco AS5200 universal **access server**. ...
www.cisco.com/en/US/products/sw/iosswrel/ps1824/products_mib_quick_reference_chapter09186a0080080e6b.html - 720k - Cached - Similar pages

CCDP: Cisco Internetwork Design Study Guide:Glossary
After CHAP is performed, the router or **access server** determines whether a given user is ... **Compare** with: control distribute VCC and control direct VCC. ...
www.unix.org.ua/cisco/CCNP-CCDP/CID-Sybex/glossary.html - 138k - Supplemental Result - Cached - Similar pages

[PDF] Promoting African Research and Education Networking A Study ...
File Format: PDF/Adobe Acrobat - View as HTML
research and training centres and other **subscribers**, and provide them ... and the backbone on which the **virtual circuit** is configured. As part of its ...
www.connectivityafrica.org/HTML/PAREN_Report_final.pdf - Similar pages

[PDF] 640-861 (DESGN) Version 15.0
File Format: PDF/Adobe Acrobat - View as HTML
C. Order and install a remove **access server** in the prototype lab. ... Which type of WAN **virtual circuit** is created on demand and terminated when ...
books.rackhub.com/download/VGVzdEtpbmcgNjQwLTg2MSBFZHQxNS5wZGY= - Similar pages

[PDF] Internetworking Technology Overview
File Format: PDF/Adobe Acrobat - View as HTML
Digital **Subscriber** Line (DSL) ... recall is simplified through the use of **comparison** operations. Ireland, for example, in a street address ...
www.netadvanced.com/docs/Internetworking_Technology_Overview.pdf - Supplemental Result - Similar pages

Multiplex communications patents 200605
A broadband **access server** for holding user channels by PPP and ... Atm permanent **virtual circuit** and layer 3 auto-configuration for digital **subscriber** line ...
www.freshpatents.com/Multiplex-communications-dt200605ntc370.php - 301k - Cached - Similar pages

Multiplex communications patents 200601
Selected messages generated by a **subscriber** unit that would otherwise be ... The **virtual circuit** includes a first end connected to a first router and a ...
www.freshpatents.com/Multiplex-communications-dt200601ntc370.php - 301k - Cached - Similar pages

[DOC] CCNA (Cisco Certified Network Associate) Certification Exam Objectives
File Format: Microsoft Word - View as HTML
A Frame Relay **virtual circuit** is a logical connection created between two data ... NTs connect the four-wire **subscriber** wiring to two-wire local loops. ...
www.angelfire.com/ny5/bleecker/BIGSTUDY.DOC - Supplemental Result - Similar pages

[DOC] PREFACE
File Format: Microsoft Word - View as HTML
... set of VPCs have to be established for conveying the user **path information** ... importance of these problems and to **compare** them to other factors like, ...
www.eurescom.de/~pub-deliverables/p300-series/P302/FINAL/VOL01.DOC - Supplemental Result - Similar pages

Result Page: **Previous** 1 2 3 4 5 6 7 8 **Next**

Web Results **21** - **30** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

Cross-Platform Release Notes for Cisco IOS Release 12.3, Part 6 ...
Symptoms: A Cisco **Access server** that terminates virtual-profile calls with ... Symptoms: When a Cisco router reloads, the ATM permanent **virtual circuit** ...
www.cisco.com/en/US/products/sw/iosswrel/ps5187/prod_release_note09186a00803704f4.html - Similar pages

Abkürzungsliste ABKLEX (HTML-Format)
... over TCP/IP: CMPS **Compare** Word String: CMS Code/Connection Management System, ... DigitalSignature Standard, Digital **Subscriber** Signalling,Directory and ...
wumisa.fh-augsburg.de/links/AbkLex/abklex.html - 240k - Supplemental Result - Cached - Similar pages

1 These indices were prepared by Irwin A Danto Computer Science ...
... universities were chosen for the **comparison** and a questionnaire appendix ... their immediate products are linear polymers The **comparison** and analysis of ...
physjob.nudl.org/~kevin/classd/exemplar.acm-corr - 250k - Supplemental Result - Cached - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat - View as HTML
ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line. (Communication). BE: Below or Equal ...
www.saviours.net/IBsTips/IBDownLoads/acronym.pdf - Supplemental Result - Similar pages

Abkürzungen
Asymmetric Digital **Subscriber** Line [technology] (BELLCORE, AT&T, DSL, ... Intel) Vibrant Colour Quality (Matrox) **Virtual Circuit** System Virtual Channel ...
www.chaho.de/menu/begriffe/abr.htm - 490k - Cached - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat
Identifies the Permanent **Virtual Circuit** (PVC) connections ... The number used to call a mobile **subscriber**. An MSISDN. consists of a country code, ...
www.acronyms.ch/files/Acronyms.Letter.Simplex.pdf - Similar pages

[PDF] The Ultimate Computer Acronyms Archive
File Format: PDF/Adobe Acrobat - View as HTML
ADSL: Asymmetric Digital **Subscriber** Line ... BDSL: Broadband Digital **Subscriber** Line. (Communication). BE: Below or Equal. Page 13 of 160. www.acronyms.ch ...
www.cherokee-education.net/acronyms.pdf - Supplemental Result - Similar pages

[PS] V.E.R.A.
File Format: Adobe PostScript
Permanent **Virtual Circuit** / Channel / Connection (ATM) ... Very high data / bit rate Digital **Subscriber** Line (DSL). VDT. Video Display Terminal ...
www.sunsite.ualberta.ca/Documentation/Gnu/vera-1.6/ps/vera.ps.gz - Similar pages

V.E.R.A. Suchergebnisse
ADSL Asymmetric Digital **Subscriber** Loop [modulation]. ADSP Advanced Digital Signal Processor ... PVC Permanent **Virtual Circuit** / Channel / Connection (ATM) ...

cgi.snafu.de/ohei/user-cgi-bin/veraresp.cgi?
Suchoption=Akronym;Weitere+Option=wide;Anfrage=.*.*.* - Similar pages

Current Internet-Drafts This summary sheet provides a short ...
"Diameter Network **Access Server** Application", Pat Calhoun, Glen Zorn, David Spence, ...
compare and contrast the Generalized Multi-Protocol Label Switching ...
ftp.tpnet.pl/vol/d1/ftp.rs.internic.net/internet-drafts/1id-abstracts.txt - 250k - Supplemental Result - Cached - Similar pages

Result Page: **Previous** 1 2 3 4 5 6 7 **Next**

Web Results **31** - **40** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

International Information Retrieval Guild <=- The Hackers Acronym ...
... ADS/O Application Development System/On-Line ADSF Automatic Directional Solidification Furnace ADSL Asymmetrical Digital **Subscriber** Loop ADSP Apple Data ...
www.textfiles.com/magazines/PHANTASY/iirg-acronyms-v12.txt - 250k - Supplemental Result - Cached - Similar pages

[PDF] NETWORK TECHNOLOGIES AND APPLICATIONS
File Format: PDF/Adobe Acrobat
A **virtual circuit** is a logical circuit created within a shared network between ... **Access Server**: An **access server** acts as a concentration point for dial-in ...
www.bilmuh.gyte.edu.tr/~ispinar/BIL571/nettekuyg1-5.pdf - Similar pages

Current Internet-Drafts This summary sheet provides an index of ...
... "Diameter Network **Access Server** Application", Pat Calhoun, Glen Zorn, ... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ...
ftp.shlink.de/dokumente/internet-drafts/1id-index.txt - 250k - Supplemental Result - Cached - Similar pages

[PDF] World No1 Cert Guides
File Format: PDF/Adobe Acrobat
Which type of WAN **virtual circuit** is created on demand and terminated when ... C. Order and install a remove **access server** in the prototype lab. ...
books.rackhub.com/download/RnJhdm8gQ2lzY28gNjQwLTg2MSB2Mi4wLnBkZg== - Similar pages

[PDF] TEAMFLY
File Format: PDF/Adobe Acrobat - View as HTML
Chapter 10 **Subscriber** to Provider, and **Subscriber** to **Subscriber**. Edge: IP ... **comparison** with data networks, for all practical purposes they have always ...
ebooks.ee.itb.ac.id/Networking/Wiley%20-%20Building%20Service%20Provider%20Networks.pdf - Supplemental Result - Similar pages

NetX.ch - Lexikon - Suche- [Translate this page]
90%, **Subscriber** Identification Module (Mobile Systems) (SIM) ... 90%, Telephone **Access Server** (TAS). 90%, Turbo Assembler [Borland] (TASM) ...
www.netx.ch/lexikon/suche.asp?str= - 829k - Cached - Similar pages

// // /////// // //// (Anti Thief)
ADSL Asymmetrical Digital **Subscriber** Loop ... ASM Analog **Subscriber** Module ASM Assembler ASM Assembler Language File ASM Assembly ASM Association of Systems ...
thief.co.za/i/textfile/magazines/phantasy/iirg-acronyms-v12.asp - 250k - Supplemental Result - Cached - Similar pages

[PDF] Cisco Router Configuration, Second Edition
File Format: PDF/Adobe Acrobat
When you receive your router or **access server**, all the ... subinterfaces are used when a single **virtual circuit** connects one router to another. Think of ...
www.ciscopress.com/content/downloads/cisco/1578702410.pdf - Similar pages

Cisco 1.3.6.1.4.1.9 SNMP MIB

This MIB module describes IDSL (ISDN Digital Line **Subscriber**) line interfaces. ... from either CISCO A - Network **Access Server** (NAS)/ Local Access ...
www.assure24.com/assure24/snmp-mib/private/Cisco/ - 333k - Cached - Similar pages

Current Internet-Drafts This summary sheet provides an index of ...
... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ... Nested Tunnels Optimization using Nested **Path Information**", Jongkeun Na, ...
www3.ietf.org/proceedings/04mar/I-D/1id-index.txt - 319k - Cached - Similar pages

Result Page: **Previous** 1 2 3 **4** 5 6 7 **Next**

Web Results **41** - **50** of about **116** for **compare subscriber "access server" "virtual circuit" "path information"**. (**0.1**

Current Internet-Drafts This summary sheet provides an index of ...
... for Very High Speed Digital **Subscriber** Lines (VDSL) Using Single Carrier ... <draft-klensin-name-munging-01.txt> "Soft Permanent **Virtual Circuit** ...
www.ietf.org/proceedings/04mar/I-D/1id-index.txt - 319k - Cached - Similar pages

hwa hn21 txt
His NTBugTraq mailing list has 25000 **subscribers**, and his Web site gets 2 ... for PPTP in its Routing and Remote **Access Server** for Windows NT Server 4.0. ...
www.morehouse.org/hin/uberzines/HWA/HWA-hn21.txt - 398k - Cached - Similar pages

Internet Drafts Abstracts Index
Which **subscriber**? As the list grows, this question becomes more and more difficult to ... associated with an established Permanent **Virtual Circuit** (PVC), ...
hegel.ittc.ku.edu/topics/internet/internet-drafts/index-long.html - Similar pages

[PDF] About This Manual
File Format: PDF/Adobe Acrobat
subscriber, and as much as 640 kbps more in both directions. ... point-to-point network if each **virtual circuit** is defined as a separate logical subnet. ...
www.ssuet.edu.pk/~amkhan/cisco/(ebook%20pdf)%20-%20Cisco-CCIE-Fundamentals-Network-Design.pdf - Similar pages

> [PDF] Internet Routing Architectures, Second Edition.doc
> File Format: PDF/Adobe Acrobat
> This **path information** provides a mechanism that allows routing loops to ... **virtual circuit** doesn't exchange keepalive messages with the remote router. This ...
> www.ssuet.edu.pk/~amkhan/cisco/Cisco%20Press%20-%20Internet%20Routing%20Architectures,%20Second%20Edition.pdf - Similar pages

[PDF] ERX Command Reference Guide
File Format: PDF/Adobe Acrobat
subinterface on the router or **access server**. The DLCI number identifies a. **virtual circuit**. The no version removes this assignment. Syntax: ...
www.m40.net/techpubs/software/erx/erx410/bookpdfs/swcmdref.pdf - Similar pages

@TECHREPORT{Ball9211:Core, AUTHOR="Anthony Ballardie and Paul ...
However, the concept of a Network **Access Server** has grown up over the years ... **subscriber** and equipment information, given a telephone number as input. ...
www.cs.columbia.edu/~hgs/bib/i-d.bib - Similar pages

> @TECHREPORT{Borm9705:Providing, AUTHOR="Bormann, C.", TITLE ...
> It also supports different types of **comparison** operators, so services can use SNQP with ... associated with an established Permanent **Virtual Circuit** (PVC), ...
> www.cs.columbia.edu/~hgs/bib/i-d-history.bib - 977k - Cached - Similar pages

[PDF] PortMaster Command Line Reference
File Format: PDF/Adobe Acrobat
This command enables the multiple **subscriber** network (MSN) feature for countries ... This command displays BGP **path information** learned by the PortMaster. ...
www.pimpworks.org/livingston/command.pdf - Similar pages

[PDF] *:96 Internet application layer protocols and standards
File Format: PDF/Adobe Acrobat
A transport layer **virtual circuit** established between two programs ... destination server in the Request-URI without any **path information**. ...
dsv.su.se/jpalme/internet-course/compendium-2.pdf - Similar pages

Result Page: **Previous** 1 2 3 4 **5** 6 7 **Next**

Results for "((path<in>metadata) <and> (circuit<in>metadata))<and> (subscriber<..."
Your search matched **37** of **1432467** documents.
A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

1. **Providing Multiple-Channel Communication Using the Experimental Digital Switch**
   Gordon, R.;
   Communications, IEEE Transactions on [legacy, pre - 1988]
   Volume 30, Issue 6, Jun 1982 Page(s):1409 - 1416
   AbstractPlus | Full Text: PDF(840 KB) IEEE JNL
   Rights and Permissions

2. **On the implementation of adaptive electronic hybrid for digital subscriber loops**
   Wei, C.-H.; Kuo, N.-A.;
   Circuits and Systems, IEEE Transactions on
   Volume 35, Issue 8, Aug. 1988 Page(s):1024 - 1027
   Digital Object Identifier 10.1109/31.1850
   AbstractPlus | Full Text: PDF(332 KB) IEEE JNL
   Rights and Permissions

3. **Deployment of ATM subscriber line systems**
   Tusoboi, T.; Maeda, Y.; Hayashi, K.; Kikuchi, K.;
   Selected Areas in Communications, IEEE Journal on
   Volume 10, Issue 9, Dec. 1992 Page(s):1448 - 1458
   Digital Object Identifier 10.1109/49.184875
   AbstractPlus | Full Text: PDF(780 KB) IEEE JNL
   Rights and Permissions

4. **Full-duplex fast initializing digital subscriber loop echo cancellers**
   Xixian Chen; Weiping Li;
   Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on [se
   Circuits and Systems II: Express Briefs, IEEE Transactions on]
   Volume 41, Issue 2, Feb. 1994 Page(s):99 - 104
   Digital Object Identifier 10.1109/82.281841
   AbstractPlus | Full Text: PDF(476 KB) IEEE JNL
   Rights and Permissions

5. **A 0.5 µm CMOS ADSL analog front-end IC**
   Cornil, J.P.; Chang, Z.Y.; Louagie, F.; Overmeire, W.; Verfaille, J.;
   Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 1999 IEEE International
   15-17 Feb. 1999 Page(s):238 - 239
   Digital Object Identifier 10.1109/ISSCC.1999.759209

AbstractPlus | Full Text: PDF(272 KB) IEEE CNF
Rights and Permissions

6. **Novel 1.3/1.55 /spl mu/m dual-wavelength receiver having embedded fiber circuit f optical subscriber systems**
Uno, T.; Tohmon, G.; Matsui, Y.;
Optical Fiber Communications, 1996. OFC '96
25 Feb.-1 March 1996 Page(s):54 - 55
Digital Object Identifier 10.1109/OFC.1996.907636
AbstractPlus | Full Text: PDF(204 KB) IEEE CNF
Rights and Permissions

7. **A four-channel digital signal processor in 1.2-µm CMOS with on-chip D/A and A/D conversion serving four speech channels in a new-generation subscriber line circ**
Haspeslagh, D.; Sevenhans, J.; Delarbre, A.; Kiss, L.; Moerman, E.;
Solid-State Circuits, IEEE Journal of
Volume 26, Issue 7, July 1991 Page(s):1038 - 1046
Digital Object Identifier 10.1109/4.92024
AbstractPlus | Full Text: PDF(584 KB) IEEE JNL
Rights and Permissions

8. **Class-AB high-swing CMOS power amplifier**
Mistlberger, F.; Koch, R.;
Solid-State Circuits, IEEE Journal of
Volume 27, Issue 7, Jul 1992 Page(s):1089 - 1092
Digital Object Identifier 10.1109/4.142606
AbstractPlus | Full Text: PDF(476 KB) IEEE JNL
Rights and Permissions

9. **A multi-class routing algorithm based on QoS fluctuation function**
Hongfei Liu; Jiuchuan Hu; Hongke Zhang; Jianbo Zhang;
Communications, Circuits and Systems, 2004. ICCCAS 2004. 2004 International Confer
Volume 1, 27-29 June 2004 Page(s):512 - 515 Vol.1
AbstractPlus | Full Text: PDF(365 KB) IEEE CNF
Rights and Permissions

10. **Study on cell error rate of satellite ATM system based on CDMA**
Zhao Tongyu; Zhang Naitong;
Communications, Circuits and Systems and West Sino Expositions, IEEE 2002 Internati Conference on
Volume 1, 29 June-1 July 2002 Page(s):460 - 464 vol.1
AbstractPlus | Full Text: PDF(289 KB) IEEE CNF
Rights and Permissions

11. **System-on-chip design of a four-port ADSL-lite Data DSP**
Jain, R.K.; Frenzel, R.; Terschluse, M.; Pandey, P.K.; Low, S.H.; Sukumaran, B.; Lam, L
Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE International Symposium on
Volume 4, 6-9 May 2001 Page(s):242 - 245 vol. 4
Digital Object Identifier 10.1109/ISCAS.2001.922217
AbstractPlus | Full Text: PDF(472 KB) IEEE CNF
Rights and Permissions

12. **A CMOS analog front-end IC for DMT ADSL**
Conroy, C.; Sheng, S.; Feldman, A.; Uehara, G.; Yeung, A.; Chih-Jen Hung; Subramani Chiang, P.; Lai, P.; Xiaomin Si; Fan, J.; Flynn, D.; Meiqing He;
Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 1999 IEEE International
15-17 Feb. 1999 Page(s):240 - 241
Digital Object Identifier 10.1109/ISSCC.1999.759210

AbstractPlus | Full Text: PDF(368 KB) IEEE CNF
Rights and Permissions

☐ **13. A differential error reference adaptive echo canceller for multilevel PAM line code**
Perez-Alvarez, I.A.; Paez-Borrallo, J.B.; Zazo-Bello, S.;
Acoustics, Speech, and Signal Processing, 1996. ICASSP-96. Conference Proceedings. IEEE International Conference on
Volume 3, 7-10 May 1996 Page(s):1707 - 1710 vol. 3
Digital Object Identifier 10.1109/ICASSP.1996.544136

AbstractPlus | Full Text: PDF(364 KB) IEEE CNF
Rights and Permissions

☐ **14. An ANSI standard ISDN transceiver chip set**
Khorramabadi, H.; Agazzi, O.E.; Koh, T.; Haider, S.S.; Anidjar, J.; Cassiday, D.R.; Daub Gerveshi, C.M.; Kumar, S.P.; Lalumia, M.; Ollo, S.; Peterson, T.R.; Price, D.L.; Tracy, P. Walden, R.W.; Wilson, G.A.; Dwarakanath, M.R.; Kumar, J.; Shaw, R.F.; Wilson, R.A., II Gottfried, N.L.; Heiskanen, M.L.; McDonald, W.R.; Ramesh, N.S.; Blake, R.B., Jr.;
Solid-State Circuits Conference, 1989. Digest of Technical Papers. 36th ISSCC., 1989 II International
15-17 Feb. 1989 Page(s):256 - 257, 357
Digital Object Identifier 10.1109/ISSCC.1989.48279

AbstractPlus | Full Text: PDF(676 KB) IEEE CNF
Rights and Permissions

☐ **15. The concept of virtual paths and virtual channels in ATM-networks**
Schneider, H.;
Digital Communications, 1990. 'Electronic Circuits and Systems for Communications'. Proceedings., 1990 International Zurich Seminar on
5-8 March 1990 Page(s):63 - 72
Digital Object Identifier 10.1109/DIGCOM.1990.129361

AbstractPlus | Full Text: PDF(368 KB) IEEE CNF
Rights and Permissions

☐ **16. The distribution of echo signal and required A/D precision**
Chen, W.Y.;
Circuits and Systems, 1992. ISCAS '92. Proceedings., 1992 IEEE International Symposi
Volume 2, 3-6 May 1992 Page(s):581 - 584 vol.2
Digital Object Identifier 10.1109/ISCAS.1992.230125

AbstractPlus | Full Text: PDF(236 KB) IEEE CNF
Rights and Permissions

☐ **17. A novel approach to fast initializing digital subscriber loop echo cancelers**
Chen, X.; Li, W.;
Circuits and Systems, 1992. ISCAS '92. Proceedings., 1992 IEEE International Symposi
Volume 2, 3-6 May 1992 Page(s):541 - 544 vol.2
Digital Object Identifier 10.1109/ISCAS.1992.230135

AbstractPlus | Full Text: PDF(292 KB) IEEE CNF
Rights and Permissions

☐ **18. Capture division packet access: a new cellular access architecture for future PCN**
Borgonovo, F.; Fratta, L.; Zorzi, M.; Acampora, A.;
Communications Magazine, IEEE
Volume 34, Issue 9, Sept. 1996 Page(s):154 - 162
Digital Object Identifier 10.1109/35.536564

AbstractPlus | Full Text: PDF(2680 KB) IEEE JNL
Rights and Permissions

☐ **19. Overview of enterprise network developments**
Mercer, R.A.;

Communications Magazine, IEEE
Volume 34, Issue 1, Jan. 1996 Page(s):30 - 37
Digital Object Identifier 10.1109/35.482241

AbstractPlus | Full Text: PDF(1984 KB) IEEE JNL
Rights and Permissions

☐ **20. An expandable time-division circuit switching LSI and network architecture for broadband ISDN**
Kikuchi, S.; Yamanaka, N.;
Selected Areas in Communications, IEEE Journal on
Volume 14, Issue 2, Feb. 1996 Page(s):328 - 336
Digital Object Identifier 10.1109/49.481940

AbstractPlus | References | Full Text: PDF(1092 KB) IEEE JNL
Rights and Permissions

☐ **21. The HALO network™**
Colella, M.J.; Martin, J.N.; Akyildiz, F.;
Communications Magazine, IEEE
Volume 38, Issue 6, June 2000 Page(s):142 - 148
Digital Object Identifier 10.1109/35.846086

AbstractPlus | References | Full Text: PDF(148 KB) IEEE JNL
Rights and Permissions

☐ **22. A 12-bit integrated analog front end for broadband wireline networks**
Mehr, I.; Maulik, P.C.; Paterson, D.;
Solid-State Circuits, IEEE Journal of
Volume 37, Issue 3, March 2002 Page(s):302 - 309
Digital Object Identifier 10.1109/4.987081

AbstractPlus | References | Full Text: PDF(213 KB) IEEE JNL
Rights and Permissions

☐ **23. A CMOS line driver for ADSL central office applications**
Bicakci, A.; Chun-Sup Kim; Sang-Soo Lee;
Solid-State Circuits, IEEE Journal of
Volume 38, Issue 12, Dec 2003 Page(s):2201 - 2208
Digital Object Identifier 10.1109/JSSC.2003.818570

AbstractPlus | Full Text: PDF(638 KB) IEEE JNL
Rights and Permissions

☐ **24. Low-power variable-length fast Fourier transform processor**
Lin, Y.-T.; Tsai, P.-Y.; Chiueh, T.-D.;
Computers and Digital Techniques, IEE Proceedings-
Volume 152, Issue 4, 8 July 2005 Page(s):499 - 506
Digital Object Identifier 10.1049/ip-cdt:20041224

AbstractPlus | Full Text: PDF(293 KB) IEE JNL

☐ **25. A 3 V CMOS quad-spectrum ADSL CPE analog front-end with 5 V integrated line d**
Hogervorst, R.; Tourette, B.; Monier, N.; Metayer, O.; Afifi, E.; Delefosse, J.-C.; Michel,
Solid-State Circuits Conference, 2004. Digest of Technical Papers. ISSCC. 2004 IEEE International
15-19 Feb. 2004 Page(s):406 - 535 Vol.1
Digital Object Identifier 10.1109/ISSCC.2004.1332766

AbstractPlus | Full Text: PDF(560 KB) | Multimedia IEEE CNF
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1-25

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26. A first person IP over HDSL case study
Smith, W.;
System Sciences, 2003. Proceedings of the 36th Annual Hawaii International Conferenc
6-9 Jan 2003 Page(s):10 pp.
Digital Object Identifier 10.1109/HICSS.2003.1174336
AbstractPlus | Full Text: PDF(439 KB) IEEE CNF
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27. A 700/900mW/channel CMOS dual analog front-end IC for VDSL with integrated 11.5/14.5dBm line drivers
Moyal, M.; Groepl, M.; Werker, H.; Mitteregger, G.; Schambacher, J.;
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2003 Page(s):416 - 504 vol.1
Digital Object Identifier 10.1109/ISSCC.2003.1234364
AbstractPlus | Full Text: PDF(385 KB) | Multimedia IEEE CNF
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28. A 700 mW CMOS line driver for ADSL central office applications
Bicakci, A.; Chun-Sup Kim; Sang-Soo Lee; Conroy, C.;
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2003 Page(s):414 - 503 vol.1
Digital Object Identifier 10.1109/ISSCC.2003.1234363
AbstractPlus | Full Text: PDF(568 KB) | Multimedia IEEE CNF
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29. Combining architecture exploration and a path to implementation to build a compl SoC design flow from system specification to RTL
Dziri, M.A.; Samet, F.; Wagner, F.R.; Cesario, W.O.; Jerraya, A.A.;
Design Automation Conference, 2003. Proceedings of the ASP-DAC 2003. Asia and Sou Pacific
21-24 Jan. 2003 Page(s):219 - 224
Digital Object Identifier 10.1109/ASPDAC.2003.1195020
AbstractPlus | Full Text: PDF(891 KB) IEEE CNF
Rights and Permissions

30. A novel cost-effective multi-path adaptive interpolated FIR (IFIR)-based echo canc

Cheng-Shing Wu; An-Yeu Wu;
Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on
Volume 5, 26-29 May 2002 Page(s):V-453 - V-456 vol.5
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31. A 12-bit integrated analog front-end for broadband wireline networks
Mehr, I.; Maulik, P.; Paterson, D.;
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6-9 May 2001 Page(s):119 - 122
Digital Object Identifier 10.1109/CICC.2001.929737

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32. A 4 channel analog front end for central office ADSL modems
Kenney, J.; Sabouri, F.; Leung, V.; Guido, J.; Zimany, E.; Agrillo, A.; Trackim, J.; Khoury Shariatdoust, R.;
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AbstractPlus | Full Text: PDF(288 KB) IEEE CNF
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33. Analog front end IC for category I and II ADSL
Guido, J.; Leung, V.; Kenney, J.; Trackim, J.; Agrillo, A.; Zimany, E.; Shariatdoust, R.;
VLSI Circuits, 2000. Digest of Technical Papers. 2000 Symposium on
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34. Optimization and design of fast transceiver for DSL application in CMOS technolo
Moyal, M.;
Electronics, Circuits and Systems, 1999. Proceedings of ICECS '99. The 6th IEEE Interr Conference on
Volume 3, 5-8 Sept. 1999 Page(s):1373 - 1376 vol.3
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AbstractPlus | Full Text: PDF(232 KB) IEEE CNF
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35. An integrated adaptive analog balancing hybrid for use in (A)DSL modems
Pecourt, F.; Hauptmann, J.; Tenen, A.;
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Digital Object Identifier 10.1109/ISSCC.1999.759226

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36. From fiber to the home to full broadband ISDN
Liu, M.M.-K.;
Communications, 1990. ICC 90, Including Supercomm Technical Sessions. SUPERCOI '90. Conference Record., IEEE International Conference on
16-19 April 1990 Page(s):547 - 551 vol.2
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☐ **37. GLOBECOM '90: IEEE Global Telecommunications Conference and Exhibition. `Communications: Connecting the Future' (Cat. No.90CH2827-4)**
Global Telecommunications Conference, 1990, and Exhibition. 'Communications: Conne the Future', GLOBECOM '90., IEEE
2-5 Dec. 1990
Digital Object Identifier 10.1109/GLOCOM.1990.116469
AbstractPlus | Full Text: PDF(1292 KB) IEEE CNF
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1-2

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IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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((path<in>metadata) <and> (circuit<in>metadata))<and> (server<in>metadata) Search

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1. **Proceedings 2002 IEEE International Conference on Computer Design: VLSI in Computers and Processors**
Computer Design: VLSI in Computers and Processors, 2002. Proceedings. 2002 IEEE International Conference on
16-18 Sept. 2002
Digital Object Identifier 10.1109/ICCD.2002.1106727
AbstractPlus | Full Text: PDF(390 KB) IEEE CNF
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2. **An admission control model through outband signalling management**
Liu, W.; Krieger, U.; Akyildiz, I.F.;
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4-8 May 1992 Page(s):987 - 995 vol.2
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3. **A novel robust and low cost chips package and its thermal performance**
Soon-Jin Cho; Sang-Wook Park; Myung-Guen Park; Deok-Hoon Kim;
Advanced Packaging, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part B: Advanced Packaging, IEEE Transactions on]
Volume 23, Issue 2, May 2000 Page(s):257 - 265
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4. **Embedded capacitor in power distribution design of high-end server packages**
Pham, N.; Cases, M.; de Araujo, D.N.; Mutnury, B.; Matoglu, E.; Herrman, B.; Patel, P.;
Electronic Components and Technology Conference, 2006. Proceedings. 56th
30 May-2 June 2006 Page(s):6 pp.
Digital Object Identifier 10.1109/ECTC.2006.1645883
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5. **Control path in a protocol processor**
Nordqvist, U.; Liu, D.;
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Volume 1, 27-30 Dec. 2003 Page(s):524 - 527 Vol. 1
Digital Object Identifier 10.1109/MWSCAS.2003.1562333

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☐ 6. **Effects of variations of load distribution on network performance**
Arrowsmith, D.; di Bernardo, M.; Sorrentino, F.;
Circuits and Systems, 2005. ISCAS 2005. IEEE International Symposium on
23-26 May 2005 Page(s):3773 - 3776 Vol. 4
Digital Object Identifier 10.1109/ISCAS.2005.1465451

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☐ 7. **An inter-domain load balancing mechanism and performance evaluation**
Jingguo Ge; Hongwei Ma; Hualin Qian;
Communications, Circuits and Systems, 2005. Proceedings. 2005 International Conferer
Volume 1, 27-30 May 2005 Page(s):622 - 625 Vol. 1
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☐ 8. **Challenges in chip/processor level thermal engineering**
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Thermal and Thermomechanical Phenomena in Electronic Systems, 2004. ITHERM '04. Ninth Intersociety Conference on
Volume 2, 1-4 June 2004 Page(s):738 - 739 Vol.2
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☐ 9. **Development of a Web navigation guide system based on the hypertext probabilis grammar**
Djunaidy, A.; Samopa, F.; Halim, S.;
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Volume 1, 28-31 Oct. 2002 Page(s):317 - 322 vol.1
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☐ 10. **Sub-500 ps 64 b ALUs in 0.18 μm SOI/bulk CMOS: Design & scaling trends**
Mathew, S.; Krishnamurthy, R.; Anders, M.; Rios, R.; Mistry, K.; Soumyanath, K.;
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☐ 11. **An impact of layer stack-up on EMI**
Radu, S.; Zeeff, T.; Nuebel, J.; Drewniak, J.L.; Van Doren, T.P.; Hubing, T.H.;
Electromagnetic Compatibility, 1998. 1998 IEEE International Symposium on
Volume 2, 24-28 Aug. 1998 Page(s):828 - 833 vol.2
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Amboss, K.; Davis, J.; Hively, K.; Ripley, R.; Thorington, C.; Wilson, J.D.;
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☐ **13. Generalized processor sharing networks with exponentially bounded burstiness a**
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Digital Object Identifier 10.1109/INFCOM.1994.337678

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☐ **14. Integrated circuit solutions for multimedia servers**
Peres, M.; Reed, W.;
ATM (Asynchronous Transfer Mode) in Wide and Local Area Environments, IEE Colloqu
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☐ **16. A 1.3GHz fifth generation SPARC64 microprocessor**
Ando, H.; Yoshida, Y.; Inoue, A.; Sugiyama, I.; Asakawa, T.; Morita, K.; Muta, T.; Motokurumada, T.; Okada, S.; Yamashita, H.; Satsukawa, Y.; Konmoto, A.; Yamashita, Sugiyama, H.;
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Amick, B.W.; Gauthier, C.R.; Liu, D.;
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Digital Object Identifier 10.1109/DAC.2002.1012656

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☐ **18. A universal client for distributed networked design and computing**
Brglez, F.; Lavana, H.;
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☐ **19. Popularity-independent multimedia-on-demand server model**
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25-27 Oct. 2000 Page(s):575 - 580

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☐ **20. Challenges in the packaging of an eight way server**
Aldridge, T.V.;
Electrical Performance of Electronic Packaging, 1999
25-27 Oct. 1999 Page(s):9
Digital Object Identifier 10.1109/EPEP.1999.819182

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Radu, S.; Ji, Y.; Nuebel, J.; Drewniak, J.L.; Van Doren, T.P.; Hubing, T.H.;
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18-22 Aug. 1997 Page(s):165 - 170
Digital Object Identifier 10.1109/ISEMC.1997.667562

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☐ **22. Evaluation driven layout synthesis**
Wu, A.C.-H.; Gajski, D.D.; Chen, G.-D.;
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22-24 May 1991 Page(s):167 - 171
Digital Object Identifier 10.1109/VTSA.1991.246689

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Terms used
access server subscriber path compare virtual circuit

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1 A distributed UNIX system based on a virtual circuit switch

G. W.R. Luderer, H. Che, J. P. Haggerty, P. A. Kirslis, W. T. Marshall

December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: pdf(801.12 KB) Additional Information: full citation, abstract, references, citings, index terms

The popular UNIXTM operating system provides time-sharing service on a single computer. This paper reports on the design and implementation of a distributed UNIX system. The new operating system consists of two components: the S-UNIX subsystem provides a complete UNIX process environment enhanced by access to remote files; the F-UNIX subsystem is specialized to offer remote file service. A system can be configured out of many computers which operate either under the S-U ...

2 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

3 Design and evaluation of a wide-area event notification service

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based

systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

4 Balancing performance and flexibility with hardware support for network architectures

Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(719.03 KB) Additional Information: full citation, abstract, references, index terms

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

5 Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network (MCDN) system

Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(178.43 KB) Additional Information: full citation, abstract, references, index terms

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We also present throughput measurements as a function of velocity and describe a model to predict those numbers based upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

6 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(276.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

7 Trunking of TDM and narrowband services over IP Networks
James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

8 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

9 A survey of UNI signaling systems and protocols for ATM networks
Burkhard Stiller
April 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, citings, index terms

The main aspect covered by signaling systems and protocols for ATM networks concerns the possibility to manage, maintain, and control a user-driven communication between arbitrary ATM end-systems connected to an ATM network. The tasks and procedures defined for, e.g., setting-up an ATM connection, are often very different concerning the rrelevant specifications of various working bodies (such as ITU-T or ATM-Forum) or certain vendors, although the basis to be done for maintaining ATM connec ...

10 Communications networks for the force XXI digitized battlefield
Paul Sass
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(745.29 KB) Additional Information: full citation, abstract, references, citings, index terms

In striving to meet the increasing demands for timely delivery of multimedia information to the warfighter of the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications networks to a flexible internetwork architecture based solidly on the underlying communications protocols and technology of the commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Joint Technical Architecture (JTA), is taken from t ...

11 Comparison of network protocol and architecture for distributed virtual simulation environment

Bu-Sung Lee, Wen-Tong Cai, Stephen J. Turner, Jit-Beng Koh
July 2001 **ACM SIGOPS Operating Systems Review**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(688.63 KB) Additional Information: full citation, abstract, index terms

In any distributed virtual simulation environment, the underlying network architecture and its protocols play an important part in its performance. This paper describes the different underlying protocols used in the support of the RTI implementation in the Federated Simulations Development Kit (FDK). The communication FM and MCAST modules were modified to support different protocols. The performance of two different protocols: TCP and a new Lightweight Reliable Multicast, called Pseudo Reliable ...

Keywords: DIS, FDK, HLA, RTI, RTI-Kit, fast messages, light weight reliable multicast

12 Notable computer networks
John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10
Publisher: ACM Press
Full text available: pdf(4.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

13 Routing as a flow control strategy in an integrated circuit/packet switched communications network
Kenneth R. Hebert, Udo W. Pooch
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

This research addresses the analysis of an event-driven FORTRAN Simulation Model that simulates a special kind of Computer-Communication network. The network modeled has a circuit-switched communication subnet whose trunk lines carry both voice and data traffic simultaneously. This effort considers the viability of routing strategies as a mechanism for reducing congestion. The performance of seven alternative routing strategies are measured in terms of user-visible metrics. Based ...

14 ATM: retrospective on systems legacy: A retrospective view of ATM
Charles Kalmanek
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(222.98 KB) Additional Information: full citation, abstract, references, index terms

ATM was the focus of active research and significant investment in the early to mid 1990's. This paper discusses several visions for ATM prevalent at the time, and analyzes how ATM evolved during this period. The paper also considers the implications of this history for current connection-oriented technologies, such as optical transport networks and MPLS.

Keywords: ATM, MPLS, flow switching, transport networks

15 Topological optimization of an integrated circuit/packet-switched computer network
Mark J. Kiemele, Udo W. Pooch

January 1984 **Proceedings of the 16th conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, index terms

This paper presents a methodology which can be used to optimize the topology of an integrated circuit/packet-switched computer-communication network. This special kind of network possesses a circuit-switched backbone with various packet-switched local access networks feeding into the communications subnet. An iterative, heuristic approach is used to generate a sequence of suboptimal solutions in lieu of one optimal solution. Application of the methodology shows that it is a flexible tool th ...

16 TCP/IP performance with random loss and bidirectional congestion
T. V. Lakshman, Upamanyu Madhow, Bernhard Suter
October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5
Publisher: IEEE Press
Full text available: pdf(287.04 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: ADSL, TCP, buffer management, cable modems, scheduling

17 Design and modelling of internode: a mobile provider provisioned VPN
Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux
February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(237.48 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN

18 Voice over IP
Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard
January 2002 **Communications of the ACM**, Volume 45 Issue 1
Publisher: ACM Press
Full text available: pdf(113.77 KB) html(34.89 KB) Additional Information: full citation, abstract, references, index terms

How can voice over the Internet claim a greater share of the worldwide phone market from the voice infrastructure dominated for more than 100 years by the public-switched telephone network?

19 Internetworking using switched multi-megabit data service in TCP/IP enviroments
David M. Piscitello, Michael Kramer
July 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: pdf(862.08 KB) Additional Information: full citation, abstract, index terms

TCP/IP based networks were among the earliest and most successful applications of Local Area Network technologies, and TCP/IP-based internets continue to be a testing ground for emerging high performance transmission technologies as well as the distributed processing applications they support. As distributed processing applications become increasingly available in the next decade, consumer demand for high performance transmission services will extend beyond the distance serviceable by LANs; user ...

20 Competitive advantage on the World Wide Web: a webmaster's guide

Merrill E. Warkentin
October 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(779.01 KB) Additional Information: full citation, abstract, index terms

As the importance of the World Wide Web continues to grow, firms are seeking innovative ways to leverage the technology for competitive advantage. Firms are implementing web-based systems for internal and external information dissemination and for digital interactivity, including commerce. This paper highlights some of these uses of the web and addresses managerial and technical considerations when initiating a web site project, both on the server side and client side of the web. The focus is on ...

Keywords: digital commerce, internet security, intranet, web design, web server

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access server subscriber path compare virtual circuit

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Relevance scale

21 Beyond third generation telecommunications architectures: the convergence of internet technology and cellular telephony
Randy H. Katz
April 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(994.41 KB) Additional Information: full citation, citings

22 Algorithms and methodologies for new architectures: FlexPath NP: a network processor concept with application-driven flexible processing paths
Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild
September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(261.77 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources and (re-)configurable HW building blocks, such that different packet flows are forwarded via different, optimized processing paths through the NP. Packets with well understood, relatively simple processing requirements may even bypass the ce ...

Keywords: IP networking, application-specific architectures, dynamically reconfigurable processors, hardware accelerators, network processors

23 A threaded/flow approach to reconfigurable distributed systems and service primitives architectures
L. F. Ludwig
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

ACM workshop on Frontiers in computer communications technology
SIGCOMM '87, Volume 17 Issue 5
Publisher: ACM Press
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

24 Data replicas in distributed information services

H. M. Gladney
March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, index terms, review

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

25 Pandora - an experimental system for multimedia applications

Andy Hopper
April 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, citings

Pandora is a joint project between Olivetti Research Cambridge and the University of Cambridge Computer Laboratory. The project is investigating the use of multimedia workstations in a working environment with particular emphasis on digital video. It endeavours to place a camera on the desktop to make generation of multimedia documents as easy as producing text. We are aiming to produce a number of new applications as well as to provide insights into the way computer systems should be designed.T ...

26 Vision & challenges: A peer-to-peer approach to wireless LAN roaming

Elias C. Efstathiou, George C. Polyzos
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Publisher: ACM Press
Full text available: pdf(279.70 KB) Additional Information: full citation, abstract, references, citings, index terms

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

27 Reusable software components

Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Publisher: ACM Press
Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

28 A wireless broadband ad-hoc ATM local-area network

K. Y. Eng, M. J. Karol, M. Veeraraghavan, E. Ayanoglu, C. B. Woodworth, P. Pancha, R. A. Valenzuela
June 1995 **Wireless Networks**, Volume 1 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings

We describe the theory, design and ongoing prototyping of a wireless ATM LAN/PBX capable of supporting mobile users with multi-Mb/s access rates and multi-Gb/s aggregate capacities. Our proposed LAN consists of network nodes called Portable Base Stations (PBS) providing microcell coverage. The PBSs are designed to be low-cost, compact and high-speed and can be relocated conveniently. We employ a concept of ad-hoc networking in the layout of the PBS-to-PBS interconnection. That is, the PBSs ...

29 Comparison of signaling loads for PCS systems

Thomas F. La Porta, Malathi Veeraraghavan, Richard W. Buskens
December 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 6
Publisher: IEEE Press
Full text available: pdf(1.72 MB) Additional Information: full citation, references, citings, index terms

30 Transmission facilities for computer communications

A. G. Fraser, P. S. Henry
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(855.61 KB) Additional Information: full citation, abstract, index terms

This paper presents a brief introduction to architectures and technologies that probably will be used for wide-area communications. It starts with a review of the structure of today's network and some aspects of the *digital transmission* systems that dominate modem networks. Then the status and trends in wide-area transmission technology are addressed, first for the *backbone network* and then for the *local access network*. Local access refers to the transmission systems which c ...

31 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity

Steven O. Kimbrough, Scott A. Moore
October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(502.20 KB) Additional Information: full citation, abstract, references, citings, index terms

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meanings and contents of, the messages they

process. Given that natural language understanding is not a practicable alternative, there remain three approaches to delivering systems with semant ...

Keywords: electronic commerce, formal language for business communication, speech act theory

32 Integrating E-Commerce and Games
Nizami Cummins
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 5-6
Publisher: Springer-Verlag
Full text available: pdf(98.96 KB) Additional Information: full citation, abstract, index terms

This paper investigates how many users of commercial interactive systems are not properly agents within the interactive narrative, largely due to the dynamics of branding in cyberspace. Parallels are drawn between the dynamic personalization of e-CRM engines and context aware computing systems. Several seminal games are discussed as examples of systems in which very different relationships exist between users and the system. Arguments are made for designing e-commerce interactive systems that in ...

Keywords: Agency, Brand, Context awareness, E-commerce, Games, Interaction design, Narrative, Simulation, User, e-CRM

33 Host groups: a multicast extension for datagram internetworks
David R. Cheriton, Stephen E. Deering
September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The extensive use of local networks is beginning to drive requirements for internetwork facilities that connect these local networks. In particular, the availability of multicast addressing in many local networks and its use by sophisticated distributed applications motivates providing multicast across internetworks. In this paper, we propose a model of service for multicast in an internetwork, describe how this service can be used, and describe aspects of its implementation, inc ...

34 Mobile computing in next generation wireless networks
Prathima Agrawal, David Famolari
August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, references, citings, index terms

Keywords: IMT-2000, cdma2000, mobile computing, wireless data

35 Summary of the 4th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)
G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2
Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, index terms

36 A case study of synthesis for industrial-scale analog IP: redesign of the equalizer/filter frontend for an ADSL CODEC

Rodney Phelps, Michael J. Krasnicki, Rob A. Rutenbar, L. Richard Carley, James R. Hellums
June 2000 **Proceedings of the 37th conference on Design automation**
Publisher: ACM Press

Full text available: pdf(211.88 KB) Additional Information: full citation, abstract, references, citings, index terms

A persistent criticism of analog synthesis techniques is that they cannot cope with the complexity of realistic industrial designs, especially system-level designs. We show how recent advances in simulation-based synthesis can be augmented, via appropriate macromodeling, to attack complex analog blocks. To support this claim, we resynthesize from scratch, in several different styles, a complex equalizer/filter block from the frontend of a commercial ADSL CODEC, and verify by full si ...

37 Summary of the 4th international workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)

G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, index terms

This paper presents a summary of the fourth International Workshop on Network and Operating System Support for Digital Audio and Video held at Lancaster. The contents of each session (including panel and work in progress sessions) are described and major areas of controversy are highlighted. A complete bibliography of all papers presented is included.

38 The price of selfish routing

Marios Mavronicolas, Paul Spirakis
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(233.77 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the problem of routing traffic through a congested network. We focus on the simplest case of a network consisting of m parallel links. We assume a collection of n network users, each employing a mixed strategy which is a probability distribution over links, to control the shipping of its own assigned traffic. Given a capacity for each link specifying the rate at wh ...

39 Technical papers: concurrency: Software model checking in practice: an industrial case study

Satish Chandra, Patrice Godefroid, Christopher Palm
May 2002 **Proceedings of the 24th International Conference on Software Engineering**
Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

We present an application of software model checking to the analysis of a large industrial software product: Lucent Technologies' CDMA call-processing library. This software is

deployed on thousands of base stations in wireless networks world-wide, where it sets up and manages millions of calls to and from mobile devices everyday. Our analysis of this software was carried out using VeriSoft, a tool developed at Bell Laboratories that implements model-checking algorithms for systematically testin ...

40 GIP: an infrastructure for mobile intranets development

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM Press

Full text available: pdf(566.62 KB) Additional Information: full citation, abstract, references, citings, index terms

The GPRS and UMTS specifications define the procedures supporting the mobility and the data sessions of a mobile user moving within the area of the corresponding PLMNs. For the case, though, of mobile users working in group, using a PLMN infrastructure, the aforementioned networks foresee no special treatment. However, services tightly related to a specific geographic area, like for example security or surveillance services, could be implemented by a group of collaborating Mobile Nodes f ...

Keywords: GPRS, UMTS, mobile intranet

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41 An integrated admission-degradation framework for optimizing real-time call mix in wireless cellular networks

Gergely Záruba, Imrich Chlamtac, Sajal K. Das

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(789.35 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an integrated framework for selecting optimal call mixes (in a multimedia traffic scenario) by bandwidth degradation in a wireless cellular network, to maximize the revenue earned by the service provider. Each admitted call in our framework generates a revenue for the service provider based on the parameters of the call. The sum of the revenues generated by all admitted calls at a time is considered as the total revenue earned in a cell. By degradation, ...

Keywords: admission control, call degradation, cellular systems, framework

42 Mobility management for hierarchical wireless networks

Guangyu Pei, Mario Gerla

August 2001 **Mobile Networks and Applications**, Volume 6 Issue 4

Publisher:

Advances in high-speed networking
William Stallings
March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(163.21 KB) Additional Information: full citation, references, index terms

Results 41 - 43 of 43 Result page: previous 1 2 **3**

Terms used **path information access server virtual circuit subscriber**

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1 Papers: Context-agile encryption for high speed communication networks

Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

2 New architectures: Loose source routing as a mechanism for traffic policies

Katerina Argyraki, David R. Cheriton

August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Publisher: ACM Press

Full text available: pdf(135.80 KB) Additional Information: full citation, abstract, references, index terms

Internet packet delivery policies have been of concern since the earliest times of the Internet, as witnessed by the presence of the Type of Service (ToS) field in the IPv4 header. Efforts continue today with Differentiated Services (DiffServ) and Multiprotocol Label Switching (MPLS). We claim that these approaches have not succeeded because they require, either explicitly or subtly, a network-layer virtual circuit mechanism.In this paper, we describe how adding a form of Loose Source and Record ...

Keywords: filtering, loose source routing, quality of service, route control, traffic policies

3 An approach for interconnecting SNA and XNS Networks

Kenneth O. Zoline, William P. Lidinsky

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications SIGCOMM '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index

terms

Interest in computer internetworking has resulted from the proliferation of wide area and local area networks. The CCITT, DARPA/DoD, and ISO/ECMA internetworking models, which have become widely accepted for doing this, do not address the pragmatic problem of interconnecting computer networks that are based upon closed-system, vendor-proprietary network architectures. This paper presents an approach for interconnecting private data networks that are based upon IBM's System Network Architect ...

4 Notable abbreviations in telecommunications

Hans W. Barz
April 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 2
Publisher: ACM Press
Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, index terms

Two years ago I already published the first version of abbreviations - see [1]. Compared to the first edition the number of abbreviations has doubled.

5 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon
April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2
Publisher: IEEE Press
Full text available: pdf(154.32 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

6 A bibliography on performance issues ATM networks

I. Nikloaidis, Raif O. Onvural
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, citings, index terms

The Asynchronous Transfer Mode (ATM) is the transport mode of choice for B-ISDN. In order for high speed networks to become a reality, a number of performance issues has to be resolved. In recent years, there has been a growing interest in the literature in developing performance models to explore a wide range of performance problems varying from understanding the performance of a switch architecture to implementing efficient congestion control mechanisms and light weight transport protocols. In ...

7 Design of inter-administrative domain routing protocols

L. Breslau, D. Estrin
August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM symposium on Communications architectures & protocols SIGCOMM '90**, Volume 20 Issue 4
Publisher: ACM Press
Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

Policy Routing (PR) is a new area of development that attempts to incorporate policy related constraints on inter-Administrative Domain (AD) communication into the route computation and forwarding of inter-AD packets. Proposals for inter-AD routing mechanisms are discussed in the context of a design space defined by three design parameters: location of routing decision (i.e., source or hop-by-hop), algorithm used (i.e.,

link state or distance vector), and expression of policy in ...

8 Session A: Routing: On the impact of alternate path routing for load balancing in mobile ad hoc networks

Marc R. Pearlman, Zygmunt J. Haas, Peter Sholander, Siamak S. Tabrizi
November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**
Publisher: IEEE Press
Full text available: pdf(600.19 KB) Additional Information: full citation, abstract, references, citings

Alternate path routing (APR) can provide load balancing and route failure protection by distributing traffic among a set of diverse paths. These benefits make APR appear to be an ideal candidate for the bandwidth limited and mobile ad-hoc networks. However, we find that APR's potential is not fully realized in ad-hoc networks because of route coupling resulting from the geographic proximity of candidate paths between common endpoints. In multiple channel networks, coupling occurs when paths shar ...

9 Multilink PPP

George E. Conant
September 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(21.14 KB) Additional Information: full citation, abstract, index terms

One Big Virtual WAN Pipe: MLPPP gives network managers the power to deliver WAN bandwidth on demand using an array of services

10 Fast restoration of real-time communication service from component failures in multi-hop networks

Seungjae Han, Kang G. Shin
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms

For many applications it is important to provide communication services with guaranteed timeliness and fault-tolerance at an acceptable level of overhead. In this paper, we present a scheme for restoring real-time channels, each with guaranteed timeliness, from component failures in multi-hop networks. To ensure fast/guaranteed recovery, *backup channels* are set up a *priori* in addition to each *primary channel*. That is, a *dependable real-time connection* consists of a pr ...

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